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[BOOK] Vector Quantization and Signal Compression - all 2 versions »
A Gersho, RM Gray - 1992 - books.google.com
VECTOR QUANTIZATION AND SIGNAL COMPRESSION is devoted to the theory and practice
of signal compression; ie, data compression applied to signals such as speech ...
Cited by 3467 - Related Articles - Web Search

The lossless compression of AVIRIS images by vector quantization - all 5 versions »
MJ Ryan, JF Arnold, ADF Acad, ACT Canberra - Geoscience and Remote Sensing, IEEE Transactions on, 1997 - ieeexplore.ieee.
org
... Whilst it is not practical to re-order bands into NER groups in a vector
quantization compression scheme, as illustrated in Fig. ...
Cited by 70 - Related Articles - Web Search - BL Direct

Fast texture synthesis using tree-structured vector quantization - all 34 versions »
LY Wei, M Levoy - Proceedings of the 27th annual conference on Computer ..., 2000 - portal.acm.org
... We accelerate this synthesis process using tree-structured vector quantization. ... Keywords:
Texture Synthesis, Compression Algorithms, Image Processing ...
Cited by 568 - Related Articles - Web Search

Combining Image Compression and Classification Using Vector Quantization - all 7 versions »
KL Oehler, RM Gray - 1995 - doi.ieeecomputersociety.org
... methods have long been used for a variety of signal processing applications, including
both classification and vector quantization for signal compression. ...
Cited by 90 - Related Articles - Web Search - BL Direct

Vector Quantization - all 6 versions »
RM Gray - Readings in Speech Recognition, 1984 - books.google.com
3.3 Vector Quantization 75 Vector Quantization Robert M. Gray A vector quantizer
is a ... The goal of such a system is data compression: to reduce the bit rate so ...
Cited by 1256 - Related Articles - Web Search

[CITATION] Vector Quantization and Signal Compression
RM Gray - 1991 - Klewer
Cited by 80 - Related Articles - Web Search

Image coding using vector quantization: a review - all 4 versions »
NM Nasrabadi, RA King - Communications, IEEE Transactions on, 1988 - ieeexplore.ieee.org
... VQ's). Recently, there have been several review articles on general technique of
image compression [3]-[6]. In particular, vector quantization has been ...
Cited by 481 - Related Articles - Web Search

[PDF] QccPack: An open-source software library for quantization, compression, and coding - all 20 versions »
JE Fowler - Applications of Digital Image Processing XXIII - gri.msstate.edu
... 8. A. Gersho and RM Gray, Vector Quantization and Signal Compression, Kluwer
international series in engineering and computer science, Kluwer Academic ...
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Image **compression** using address-**vector quantization** - all 5 versions »

NM Nasrabadi, Y Feng - Communications, IEEE Transactions on, 1990 - ieeexplore.ieee.org
... 12, DECEMBER 1990 0090-6778/90/1100-2 166501.00 © 1990 IEEE Image **Compression** Using
Address-**Vector Quantization** NASSER M. NASRABADI, MEMBER, IEEE, AND YUSHU ...
Cited by 56 - Related Articles - Web Search

Entropy-constrained **vector quantization** - all 2 versions »

PA Chou, T Lookabaugh, RM Gray - Acoustics, Speech, and Signal Processing [see also IEEE ..., 1989 - ieeexplore.ieee.org
... I. INTRODUCTION ONSIDER the **quantization** or data **compression** C scheme of ... source into
contiguous vectors of length n, and represent- ing each **vector** by one ...
Cited by 379 - Related Articles - Web Search

Key authors: **R Gray** - **A Gersho** - **Y Linde** - **A Buzo** - **N Nasrabadi**

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Voice analysis-synthesis method using noise having diffusion which varies ...

US Pat. 5878388 - Filed Jun 9, 1997 - Sony Corporation

Thus, employment of **vector quantization** can be considered. ... groups and finding
a representative values for each of the groups to **lower** the M **dimension** to ...

High efficiency encoding method

US Pat. 5765127 - Filed Dec 6, 1993

Thus, 44-point data are obtained. **quantization**, and to improve the **compression**

ratio in **vector** Since it is not necessary to transmit a DC value (direct ...

[APPLICATION] Dimensional **vector** and variable resolution **quantization**

US Pat. App 10/587,907 - Filed Jan 30, 2004 - France Telecom

coding and/or decoding of digital signals, by **vector quantization** at ... that may

not be obtained by **insertion** into codevectors of **lower dimension** of the ...

Method and apparatus for low frequency removal in **vector quantization**

US Pat. 5235418 - Filed Nov 19, 1991 - Scientific-Atlanta, Inc.

See, three input image vectors are provided for each block in for example, RL

Baker, "**Vector Quantization** of Digi- 45 a color image, one containing Y data, ...

Method and apparatus for enhanced transaction card **compression** employing ...

US Pat. 5789726 - Filed Nov 25, 1996 - Eastman Kodak Company

50 For Image **Compression**. Storage. And Retrieval On Mag- **Vector quantization**

requires me formation of a codebook netic Transaction Cards," by Ray, et al.). ...

[APPLICATION] METHOD FOR COMPRESSING AND DECOMPRESSING A SEQUENCE OF NUMBERS

US Pat. App 11/685,467 - Filed Mar 13, 2007 - EXPWAY

For example, if the document contains a **vector** graphical image which is ...

of points in an image, a **quantization** step is determined for each rank, ie, ...

Method for minimal-logic non-linear filter implementation

US Pat. 6904179 - Filed May 30, 2002 - Xerox Corporation

Each interval is comprised of a **lower** and upper **vector**. ... Examples are object

detection, image enhancement, data **compression**, thresholding, noise-removal, ...

Low visibility watermarks using an out-of-phase color

US Pat. 6721440 - Filed Jul 2, 2001 - Digimarc Corporation

1 is a diagram of a color space depicting how to scale a color **vector** to black

to effect ... a given quantizer (eg, in **Quantization** Index Modulation), etc. ...

Detection of out-of-phase low visibility watermarks

US Pat. 6763123 - Filed Aug 20, 2001 - Digimarc Corporation

1 is a diagram of a color space depicting how to scale a color **vector** to black

to effect ... a given quantizer (eg, in **Quantization** Index Modulation), etc. ...

[APPLICATION] Low visibility watermarks using an out-of-phase color

US Pat. App 9/898,901 - Filed Jul 2, 2001

1 is a diagram of a color space depicting how to scale a color **vector** to black

to effect ... a given quantizer (eg, in **Quantization** Index Modulation), etc. ...

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Vector quantization based on Gaussian mixture models - all 4 versions »
P Hedelin, J Skoglund - Speech and Audio Processing, IEEE Transactions on, 2000 - ieeexplore.ieee.org
... However, this numerical methodology is only feasible for **low dimensions** and when
the ... we address pre- dicting the performance of **vector quantization** using high ...
Cited by 71 - Related Articles - Web Search - BL Direct

Quality driven gold washing adaptive **vector quantization** and itsapplication to ECG data **compression** - all 4 versions »
SG Miaou, HL Yen - Biomedical Engineering, IEEE Transactions on, 2000 - ieeexplore.ieee.org
... error denoted by Let be the **quantization** error induced ... AVQ AND ITS APPLICATION TO
ECG DATA **COMPRESSION** ... On the contrary, smaller **vector dimensions** are given to ...
Cited by 25 - Related Articles - Web Search - BL Direct

Wavelet-based ECG **compression** using dynamic **vector** quantizationwith tree codevectors in single ... - all 4 versions »
SG Miaou, HL Yen, CL Lin - Biomedical Engineering, IEEE Transactions on, 2002 - ieeexplore.ieee.org
... constrained" by the predetermined threshold and the **insertion** of new ... MIAOU et al.:
WAVELET-BASED ECG **COMPRESSION** USING DYNAMIC **VECTOR QUANTIZATION** 679 ...
Cited by 44 - Related Articles - Web Search - BL Direct

Algorithms for fast **vector quantization** - all 11 versions »
S Arya, DM Mount - Data **Compression** Conference, 1993. DCC'93., 1993 - ieeexplore.ieee.org
... **quantization**, a technique used in the **compression** of speech ... each node U that we visit
we **insert** U'S ... SNR is the most significant one for **vector quantization**. ...
Cited by 57 - Related Articles - Web Search

Secure spread spectrum watermarking for multimedia - all 21 versions »
IJ Cox, J Kilian, FT Leighton, T Shamoon - Image Processing, IEEE Transactions on, 1997 - ieeexplore.ieee.org
... distributed (iid) Gaussian random **vector** that is ... are algorithms that **insert** messages
into ... transformations, such as **compression**, **quantization**, and manipulation ...
Cited by 2895 - Related Articles - Web Search - BL Direct

A greedy tree growing algorithm for the design of variable ratevector quantizers [image **compression**] - all 3 versions »
EA Riskin, RM Gray - Signal Processing, IEEE Transactions on [see also Acoustics, ...], 1991 - ieeexplore.ieee.org
... VQ is the extension of scalar **quantization** to a ... data due to error introduced by the
compression scheme ... The **vector dimension** is 4, meaning 2 x 2 subblocks of the ...

Cited by 102 - Related Articles - Web Search

... compression of volumetric medical images using distortion-constrained adaptive **vector quantization** - all 6 versions »
SG Miaou, ST Chen - Medical Imaging, IEEE Transactions on, 2004 - ieeexplore.ieee.org
... duced **quantization** distortion ... codevector that is similar enough to the tree **vector**
to be ... or the legal consider- ation even though its **compression** efficiency is ...
Cited by 10 - Related Articles - Web Search - BL Direct

Adaptive **vector quantization** using generalized threshold replenishment - all 8 versions »
JE Fowler, SC Ahalt - Proceedings of the 1997 IEEE Data **Compression** Conference, 1997 - doi.ieeecomputersociety.org
... Step 6a: **Insert** Xt in the front of Ct ... Neural Network Approach for Adaptive **Vector**
Quantization of Images ... S. Shende, and K. Sayood, "Online **Compression** of Video ...
Cited by 13 - Related Articles - Web Search

A novel adaptive **vector quantization** method for memory reduction inMPEG-2 HDTV decoders - all 3 versions »
R Bruni, A Chimienti, M Lucenteforte, D Pau, R ... - Consumer Electronics, IEEE Transactions on, 1998 - ieeexplore.ieee.org
... The **insertion** of an adaptive **vector** quantizer in place of the ... [4] A.Gersho, RM Gray,
"**Vector quantization** and sig- nal **compression**", Kluwer Academic ...
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GA Davidson, PR Cappello, A Gersho - Acoustics, Speech, and Signal Processing [see also IEEE ..., 1988 - ieeexplore.ieee.org
... terms per second (for any **vector dimension** between 1 ... SYSTOLIC ARCHITECTURES FOR **VECTOR**
QUANTIZATION 1653 A major ... advance in VQ speech **compression** large memory ...
Cited by 56 - Related Articles - Web Search

Key authors: I Cox - A Said - J Kilian - T Shamoon - F Leighton

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Speech classification embedded in **adaptive codebook** search for lowbit-rate CELP coding - all 2 versions »

CC Kuo, FR Jean, HC Wang - Speech and Audio Processing, IEEE Transactions on, 1995 - ieeexplore.ieee.org
... Speech Classification Embedded in **Adaptive Codebook** Search for Low Bit-Rate CELP
Coding ... Therefore, a wider range is required in **adaptive codebook** search. ...
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The **adaptive** multi-rate speech coder
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... 3.2 **Adaptive Codebook** The **adaptive codebook** (CB) search employs an open-loop pitch
estimate to restrict the search range of the absolute coded lags. ...
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Bus data encoding with coupling-driven **adaptive** code-book method for low power data transmission
S Komatsu, M Ikeda, K Asada - Solid-State Circuits Conference, 2001. ESSCIRC 2001. ..., 2001 - ieeexplore.ieee.
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... We have proposed a **code-book** based coding scheme, **adaptive code-book** encoding, which
reduces bus signal **Codebook** Minimum Hamming Distance Detector Input Step 1 ...
Cited by 15 - Related Articles - Web Search

Vector sum excited linear prediction (VSELP) speech coding at 8kbps
IA Gerson, MA Jasiuk, M Inc, IL Schaumburg - Acoustics, Speech, and Signal Processing, 1990. ICASSP-90., ...,
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... The first is from the long term ("pitch") predictor state, or **adaptive codebook**
[4], The second and third sources are from two VSELP excitation codebooks. ...
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selection - all 4 versions »
B Jeon, J Park, J Jeong - SIGNAL PROCESS IMAGE COMMUN, 1998 - media.skku.ac.kr
... assignment and **adaptive codebook** selection Byeungwoo Jeo+*, Juha Parkb, Jechang
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iLBC-a linear predictive coder with robustness to packet losses
SV Andersen, WB Kleijn, R Hagen, J Linden, MN ... - Speech Coding, 2002, IEEE Workshop Proceedings., 2002 -
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... TERM PREDICTIVE CODING The asence of the codec is linear predictive coding (LPC)
and block based coding of the LPC residual signal using an **adaptive codebook**. ...
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… with backward and inverse filtered target matching and a tree structured mutitap **adaptive codebook** …
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D Mukherjee, E Paksoy - US Patent 6,161,086, 2000 - freepatentsonline.com
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matching and a tree structured mutitap **adaptive codebook** search. **...**
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Improved speech quality and efficient vector quantization in SELP

WB Kleijn, DJ Krasinski, RH Ketchum - Acoustics, Speech, and Signal Processing, 1988. ICASSP-88., …, 1988 - ieeexplore.ieee.org
... IL Abstract A SELP (Stochastically Excited Linear Prediction) algorithm consisting
of a two-stage vector quantization using an **adaptive codebook** and a **...**
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Real-time foreground–background segmentation using **codebook** model - all 2 versions »

K Kim, TH Chalidabhongse, D Harwood, L Davis - Real-Time Imaging, 2005 - Elsevier
... In addition to the basic algorithm, two features improving the algorithm are
presented—layered modeling/detection and **adaptive codebook** updating. **...**
Cited by 55 - Related Articles - Web Search

CELP speech coding based on an **adaptive** pulse position **codebook** - all 3 versions »

T Amada, K Miseki, M Akamine - Acoustics, Speech, and Signal Processing, 1999. ICASSP'99. …, 1999 - ieeexplore.ieee.org
... Position Excitation Analysis **Adaptive** Position **Codebook ... adaptive** code vector is selected
from the **adaptive code- book**, (2) smoothed absolute amplitude of the **...**
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Key authors: **R Salami** - **I Gerson** - **J Adoul** - **C Laflamme** - **P Kroon**

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Image coding using **vector quantization**: a review - all 4 versions »
NM Nasrabadi, RA King - Communications, IEEE Transactions on, 1988 - ieeexplore.ieee.org
... the proposed **adaptive vector quantization** system. The image is subdivided into
nonoverlapping subimages, and for each subimage, a separate **codebook** consisting ...
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Image Compression Using **Adaptive Vector Quantization** - all 3 versions »
M Goldberg, P Boucher, S Shlien - Communications, IEEE Transactions on [legacy, pre-1988], 1986 - ieeexplore.ieee.org
... This technique reduces **code- book** generation time and, by ... of the operations involved
in **adaptive** image **vector** ... components were used for **codebook** generation. ...
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... **Vector Quantization** 587 16.1 Introduction 587 16.2 Mean Adaptation 590 16.3
Gain-**Adaptive Vector Quantization** 594 16.4 Switched **Codebook** Adaptation 602 16.5 ...
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Improved versions of learning **vector quantization**
T Kohonen - Neural Networks, 1990., 1990 IJCNN International Joint ..., 1990 - ieeexplore.ieee.org
... of self- organizing Neural Networks, and among **adaptive** VQ methods ... It is not at all
obvious how the **codebook** vectors in **Vector Quantization** ought to be ...
Cited by 215 - Related Articles - Web Search

Vector Quantization - all 6 versions »
RM Gray - Readings in Speech Recognition, 1984 - books.google.com
... example is given of a simple **adaptive** predictive **vector** ... being designed so that the
new **codebook** available from ... 0, 0, 1 0, 1, 0 reconstruction **code book** Figure 6 ...
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Vector quantization: A pattern-matching technique for speech coding - all 2 versions »
A Gersho, V Cuperman - Communications Magazine, IEEE, 1983 - ieeexplore.ieee.org
... kb/s the quality of ADPCM or **adaptive** delta modulation ... k dB for each doubling of
the **codebook** size (for ... entire **vector**), where k is the dimension of the **vector**. ...
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Efficient **vector quantization** of LPC parameters at 24 bits/frame - all 6 versions »
KK Paliwal, BS Atal - Speech and Audio Processing, IEEE Transactions on, 1993 - ieeexplore.ieee.org
... First, a large **codebook** requires prohibitively large amount of training data ... the
storage and computational requirements for **vector quantization** encoding will ...
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Vector quantization of images based upon the Kohonenself-organizing feature maps - all 2 versions »
NM Nasrabadi, Y Feng - Neural Networks, 1988., IEEE International Conference on, 1988 - ieeexplore.ieee.org
... 3. It is still not clear which **codebook** is a ... the images coded by the Kohonen **code-
book** design seem ... Self-Organization is a non-linear **adaptive** technique where ...
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A Gersho, B Ramamurthi - Acoustics, Speech, and Signal Processing, IEEE International ..., 1982 - ieeexplore.ieee.org
... improve performance, we have also used a simple **adaptive** technique for **codebook**
design. **...** shade (non—edge) cell and a separate **code— book** design is **...**
Cited by 62 - Related Articles - Web Search

Fast full search equivalent encoding algorithms for imagecompression using **vector quantization** - all 4 versions »

CM Huang, Q Bi, GS Stiles, RW Harris - Image Processing, IEEE Transactions on, 1992 - ieeexplore.ieee.org
... The address of the **code- book** entry most similar to the signal **vector** is then **...** to
fetch the same entry from an iden- tical **codebook**, thus reconstructing **...**
Cited by 106 - Related Articles - Web Search

Key authors: **R Gray** - **A Gersho** - **N Nasrabadi** - **S Ahalt** - **K Paliwal**

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[BOOK] **Vector Quantization** and Signal Compression - all 2 versions »
A Gersho, RM Gray - 1992 - books.google.com
... 620 16.9 **Vector** Excitation Coding 621 16.10 Problems 628 17 **Variable** Rate **Vector**
Quantization 631 17.1 **Variable** Rate Coding 631 17.2 **Variable Dimension** VQ 634 ...
Cited by 3532 - Related Articles - Web Search

Optimal nonlinear interpolative **vector quantization** - all 3 versions »
A Gersho - Communications, IEEE Transactions on, 1990 - ieeexplore.ieee.org
... In interpolative VQ, (IVQ) a high **dimensional** signal **vector** ... lower complexity than
direct **vector quantization** (VQ) of ... then estimates the signal **vector** from the ...
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Variable-rate multi-stage **vector quantization** for image coding
YS Ho, A Gersho - Acoustics, Speech, and Signal Processing, 1988. ICASSP-88., ..., 1988 - ieeexplore.ieee.org
... each of which encodes the **quantization** error generated ... to convert between different
vector dimensions in the ... **Variable**-rate encoding increases the compression ...
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Variable dimension vector quantization of linear predictivecoefficients of speech
PA Chou, T Lookabaugh - Acoustics, Speech, and Signal Processing, 1994. ICASSP-94., ..., 1994 - ieeexplore.ieee.org
Page 1 0-71103-1775-0/94 S3.(X1 © 1994 IEEE **VARIABLE DIMENSION VECTOR QUANTIZATION**
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B Fritzke... - Advances in Neural Information Processing Systems, 1995 - pikas.inf.tu-dresden.de
... possibly innite) number of n-**dimensional** input signals ... 9. Decrease all error **variables**
by multiplying ... model are clustering (as shown) and **vector quantization**. ...
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Vector quantization of image subbands: a survey - all 10 versions »
PC Cosman, RM Gray, M Vetterli - Image Processing, IEEE Transactions on, 1996 - ieeexplore.ieee.org

... indexes produced by quantizing (scalar or **vector**) another sequence X **...** is the set of all k-**dimensional** vectors with **...** vectors), or they can map **variable** numbers of **...**

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Vector quantization of harmonic magnitudes for low-rate speechcoders - all 2 versions »

P Lupini, V Cuperman - Global Telecommunications Conference, 1994. GLOBECOM'94.' ... - ieeexplore.ieee.org
... the use of all-pole (LPC) modeling [5], or spectral **interpolation** [6, 71. Recently,
a tech- nique called **Variable Dimension Vector Quantization** (VDVQ) [8] has **...**

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B Fritzke - Proc. ICANN, 1993 - ki.inf.tu-dresden.de
... which is subtracted from the error **variables** of q **...** of the 3600 blocks by the
16-**dimensional vector** of hidden **...** We presented a new **vector quantization** method which **...**

Cited by 26 - Related Articles - View as HTML - Web Search

Using a perception-based frequency scale in waveform **interpolation** - all 3 versions »

J Thyssen, WB Kleijn, R Hagen - Acoustics, Speech, and Signal Processing, 1997. ICASSP-97., ..., 1997 - ieeexplore.ieee.org
... will be reduced, but not removed, with **interpolation** between harmonics **...** this: i) the
modified ERB-rate scale and ii) **variable-dimension vector quantization. ...**

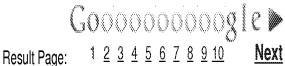Cited by 11 - Related Articles - Web Search - BL Direct

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O Gottesmann - Acoustics, Speech, and Signal Processing, 1999. ICASSP'99. ..., 1999 - ieeexplore.ieee.org
... pitch period and, therefore, a **variable dimension** VQ has **...** such that vectors of **dimension**
smaller than **...** A. Gersho, and R. Gray, "**Vector Quantization** and Signal **...**

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Key authors: A Gersho - R Gray - J Canny - M Levoy - P Hanrahan

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Quantization **resolution** and limit cycling in digitally controlled PWM converters - all 9 versions »
AV Peterchev, SR Sanders - Power Electronics, IEEE Transactions on, 2003 - ieeexplore.ieee.org
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A multibit sigma-delta ADC for multimode receivers - all 4 versions »
MR Miller, CS Petrie, M Inc, IL Schaumburg - Solid-State Circuits, IEEE Journal of, 2003 - ieeexplore.ieee.org
... The design objective is to determine a combination of sampling rates, filter order,
and **quantizer resolution** that meets the full range of **resolution** and ...
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High-**resolution** quantization theory and the vector quantizeradvantage - all 4 versions »
TD Lookabaugh, RM Gray - Information Theory, IEEE Transactions on, 1989 - ieeexplore.ieee.org
... In the next section we derive the vector **quantizer** advan- tages for constrained
resolution systems under the rth power distortion measure, and justify the ...
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A multi-bit sigma-delta modulator with interstate feedback
L Fang, KS Chao - Circuits and Systems, 1998. ISCAS'98. Proceedings of the ... - ieeexplore.ieee.org
... oversampling ratio defined in octaves , n is the internal **quantizer resolution**,
and k is the order of the modulator. To obtain a ...
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High-definition video encoding system having color-sensitive quantization - all 2 versions »
SV Naimpally, SL lu, HY Kim - US Patent 5,294,974, 1994 - freepatentsonline.com
... A key component of this encoding system increases the **quantization** step size of
image data, thus decreasing its **quantization resolution**, to reduce the number ...
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A 13.5–bit cost optimized multi–bit delta–sigma ADC for ADSL
A Wiesbauer, H Weinberger, M Clara, J Hauptmann, ... - Solid-State Circuits Conference, 1999. ESSCIRC'99. ...,
1999 - ieeexplore.ieee.org
... However, using a multi-stage AX modulator, the required **quantizer resolution** can
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A high **resolution** multibit sigma-delta modulator with individuallevel averaging - all 7 versions »
F Chen, BH Leung - Solid-State Circuits, IEEE Journal of, 1995 - ieeexplore.ieee.org
... Second, **quantization** noise is reduced by 6 dB with every bit increase in **quantizer**
resolution, and finally, the tone problem is alleviated [21. ...

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Effect of additive dither on the **resolution** of ideal quantizers - all 3 versions »

P Carbone, D Petri - Instrumentation and Measurement, IEEE Transactions on, 1994 - ieeexplore.ieee.org

... In such a way the **quantizer resolution** and linearity are improved at the expense
of both a reduced conversion rate and input range amplitude [11. **...**

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DCT video signal compression device with intrafield/interfield switching and adjustable high ... - all 2 versions »

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... since the buffer 10 can saturate in cases of images having a high information content,
it is known to adjust the **quantization resolution** in **quantizer** 4 (as **...**

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